an outlet tube communicating the interior of said housing with the exterior of said housing;

a pump within said outlet tube for pumping the liquid from within said housing through said outlet tube to the exterior of said housing;

an inflatable bag within said housing;

an inlet tube for drawing a sample of the flowing fluid from the exterior of said housing into said inflatable bag to inflate said bag within said housing as the liquid is pumped from within said housing; and

control means responsive to the flowing fluid for causing said pump to pump the liquid from within said housing through said outlet tube to the exterior of said housing at a flow rate proportional to the flow rate of the flowing fluid, drawing a sample of the flowing fluid through said inlet tube into said inflatable bag to inflate said bag within said housing.

4. A fluid controlled isokinetic fluid sampler as claimed in claim **3**, wherein said control means comprises a flow impeller adapted to be driven by the flowing fluid.

5. A fluid controlled isokinetic fluid sampler as claimed in claim **3**, wherein said control means comprises a motor for driving said pump and a flow rate sensor for controlling the speed at which said pump is driven by said motor.

6. A fluid controlled isokinetic fluid sampler as claimed in claim **5**, wherein said flow rate sensor is a propeller.

7. A fluid controlled isokinetic fluid sampler as claimed in claim **3**, wherein said inlet tube extends from said housing further than said outlet tube extends from said housing.

8. A fluid controlled isokinetic fluid sampler as claimed in claim **3**, further comprising a filler tube for filling said housing with the liquid.

9. A fluid controlled isokinetic fluid sampler as claimed in claim **3**, further comprising a solenoid valve in said outlet tube for blocking flow of the liquid through said outlet tube and operable to permit flow of the liquid through said outlet tube when a sample is to be drawn into said inflatable bag.

10. A fluid controlled isokinetic fluid sampler as claimed in claim **3**, wherein the ratio of the flow rate of the liquid pumped through said outlet tube to the flow rate of the flowing fluid is substantially equal the ratio of the interior diameter of said inlet tube to the interior diameter of said outlet tube.

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